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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,221	12/01/2003	Hiroshi Kamohara	0171-1044P	9834
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PO BOX 747	CH VA 22040 0747	PENG, KUO LIANG		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1796	
			NOTIFICATION DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	10/724,221	KAMOHARA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Kuo-Liang Peng	1796		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was period to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become AB ANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status	•			
1)⊠ Responsive to communication(s) filed on 9/21/ 2a)□ This action is FINAL. 2b)⊠ This 3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ⊠ Claim(s) <u>1;2,4,5,8,12,21-28,30-35 and 37</u> is/are 4a) Of the above claim(s) is/are withdraw 5) ⊠ Claim(s) <u>25-28 and 30-35</u> is/are allowed. 6) ⊠ Claim(s) <u>1,2,4,5,8,12,22-24 and 36</u> is/are rejective claim(s) <u>21 and 37</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.	·		
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the liderawing(s) be held in abeyance. Serion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/13/07.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on September 21, 2007 has been entered. Claims 3, 6-7, 9-11, 13-20 and 29 are deleted. Claims 36-37 are added. Now, Claims 1-2, 4-5, 8, 12, 21-28 and 30-37 are pending.

2. The text of those sections of Title 35, U.S. code not included in this action can be found in prior Office Action(s).

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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In Claim 5 (lines 10-11), should the phrase "the organopolysiloxane containing at least 5 mol% of diphenylsiloxane units or at least 10 mol% of methylphenylsiloxane units," be removed because it is not supported in Claim 1.

Claim Rejections - 35 USC § 102

5. Claims 1-2, 4-5, 12, 22-24 and 36 are rejected under 35 U.S.C. 102(b) as being anticipated by JP837 (JP 59-025837).

For Claims 1, 2, 5, 12 and 22-24, JP837 discloses a method of preparing a cured product derived from a composition comprising A) a polyether containing alkenyl groups and B) a polyorganosiloxane containing a specific amount of aryl (e.g., phenyl) groups. Component B) can have substituents such as alkenyl groups. (col. 6-10 and Table 1) The composition can be cured by hydrosilylation. A crosslinker containing at least two Si-H groups can be present. (col. 11-12) The ingredients in composition are further exemplified in Examples and Table 1. Since JP837's composition reads on the claimed one, both should posses the same

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properties including contact angle. The composition can be used in building or medical applications. (col. 16)

For Claim 4, "dental impression material" is merely an intended use.

For Claim 36, notably, the polyether component typically presents in a form of certain molecular weight distribution, i.e., containing polyethers having different molecular weights. Thus, the polyether component does contain at least two polyethers.

Claim Rejections - 35 USC § 103

6. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zech (US 5 849 812) in view of JP837.

Zech discloses an addition-crosslinking polyether dental impression composition. (col. 3, lines 3-13) Zech is silent on the specific use of the claimed composition. However, JP837 discloses a composition comprising A) and B) for **medical** use, *supra*, which is incorporated herein by reference. As such, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize JP837's composition for making a **dental impression** with expected success. The motivation is to afford a dental impression with enhanced properties such as optical transparency, tensile, etc. (col. 15-16)

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7. Claims 21 and 37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

None of the above references, taken alone or in combination, teaches or fairly suggests the claimed polyether.

Allowable Subject Matter

- 8. Claims 25-28 and 30-35 are allowed.
- 9. The following is an examiner's statement of reasons for allowance:

The present claims are allowable for at least the following reason(s) over the closest references: Nitzsche (US 3 070 566), Bryan (US 4 657 959), Chikuni (US 5 768 414) and JP837.

Nitzsche discloses a composition comprising a hydroxy-containing diorganopolysiloxane, a crosslinking agent and a catalyst. (col. 1, lines 55-61 and Examples) The amount of the phenyl group in the diorganopolysiloxane can be exemplified in Examples. The composition can be used in a dental impression composition, a building composition, etc. (col. 4, lines 26-31) Nitzsche is silent on

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the use of a polyether set forth in the present invention. Furthermore, Bryan teaches the use of a polyether in a silicone dental impression material. The motivation is to adjust the surface properties such as water contact angle of the dental impression material. (col. 1, lines 5-10, col. 5, line 56 to col. 6, line 38, Table 1) In light of the benefit mentioned, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate Bryan's polyether into Nitzsche's composition. Furthermore, it is well known to add a polyethylene glycol in a building member composition. For example, Chikuni teaches a polyethylene glycol as a thixotropic agent in a building member composition. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the polyethylene glycol into Nitzsche's building member composition. However, none of Nitzsche, Bryan and Chikuni, taken alone or in combination, teaches or fairly suggests the **polyether** where R^1 is a) $C_3H_6SiR^2_k(OR^2)_{3-k}$ with at least one R^2 is an alkenyl group or b) an alkenyl group set forth in Claims 22 and 25.

JP837 does not teach or fairly suggest the **polyether** where R^1 is a) $C_3H_6SiR^2{}_k(OR^2)_{3-k}$ with at least one R^2 is an alkenyl group or b) an alkenyl group set forth in Claims 22 and 25.

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10. Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Kuo-Liang Peng whose telephone number is

(571) 272-1091. The examiner can normally be reached on Monday-Friday from

8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Jim Seidleck, can be reached on (571) 272-1078. The fax

phone number for the organization where this application or proceeding is assigned

is 703-872-9306.

Information regarding the status of an application may be obtained from the

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klp

October 15, 2007

Kuo-Liang Peng Primary Examiner

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